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(54) Title: PROCESS FOR PREPARING PHOSPHORODIAMIDITES

(57) Abstract: A method of phosphorodiamidite production comprising the steps of reacting a phosphorus trihalide with a dialkyl amine in a polar solvent to form an intermediate compound. This intermediate compound is then subsequently reacted with an hydroxyalkyl compound and a dialkyl amine in the presence of a non-polar co-solvent. Following filtration to remove the solid by-product the two solvents form separate layers. This is advantageous as the upper, non-polar solvent, layer contains the high-purity phosphorodiamidite product.

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